

CASHLINK II

CASHLINK II and Financial Institutions What to Expect!

Department of the Treasury
Financial Management Service 

May 2000

- **CA\$HLINK II Goal**
- **Customer User Group - Financial Institution Partnership**
- **Project Schedule (Work Packages I, II, and III)**
- **Changes in the New System**
- **Readiness**
- **Architecture**
- **Look / Feel Prototype Demonstration**
- **Business Security Risk Evaluation**
- **Performance Benchmark**
- **Communications**
- **The Road Ahead - What's Next for You?**
- **Contacts**

To deliver a new Federal electronic cash concentration and information system that will meet the Federal Government's changing business needs and take full advantage of innovative technologies.

CASHLINK II Will Be Adaptable and Expandable

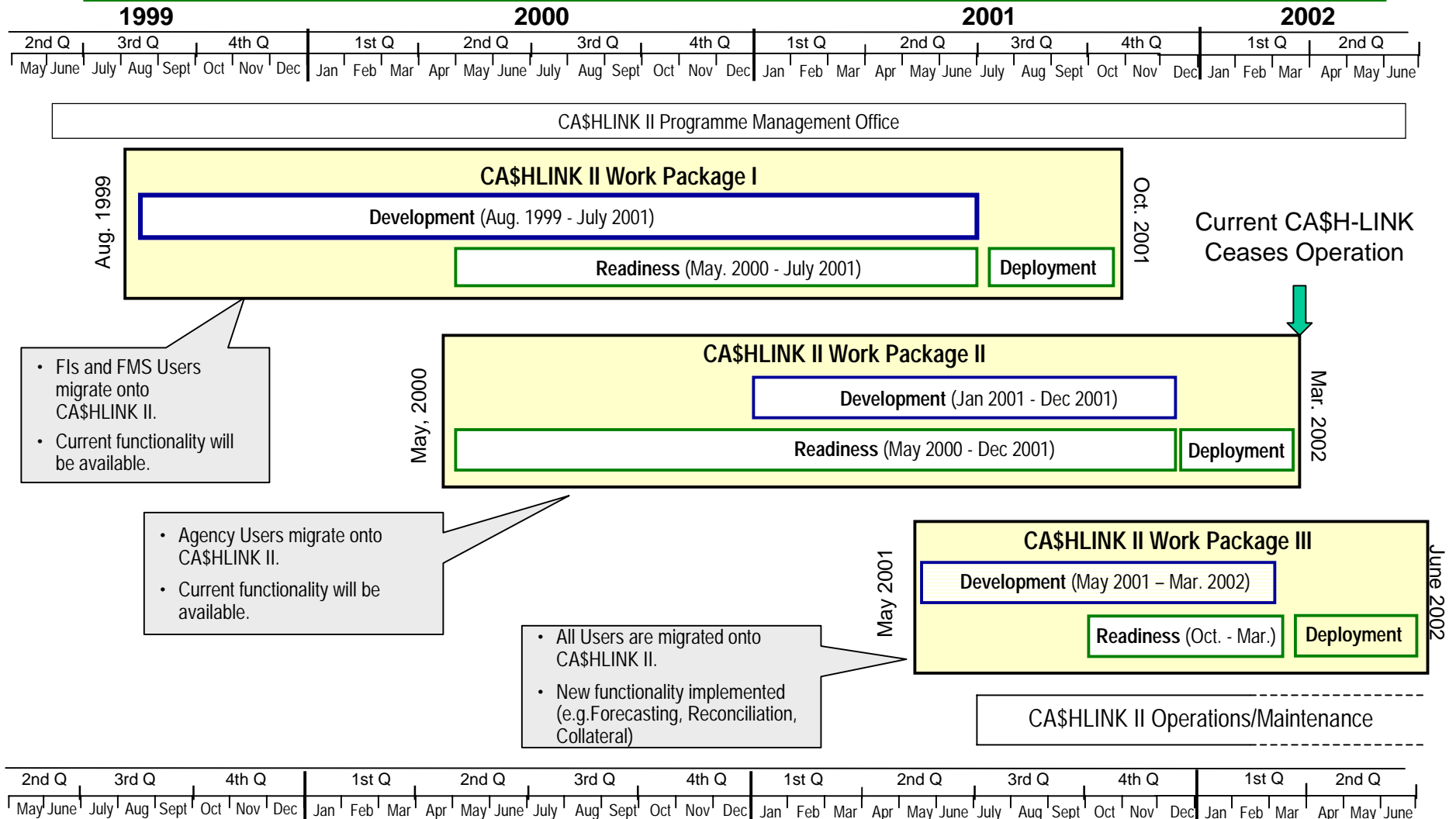
To ensure early, frequent and ongoing lines of communication between Financial Institutions and the Financial Management Service's CA\$HLINK II Team.

- **We need your active participation and feedback throughout the lifecycle of the new CA\$HLINK II System**
 - FI Forums
 - Focus Groups
 - Advisory Group
 - Evaluations
 - Web Site

Ensure Financial Institution Participation and Input

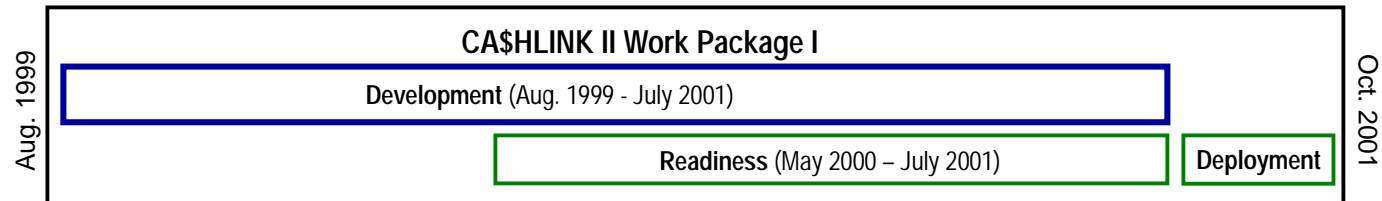
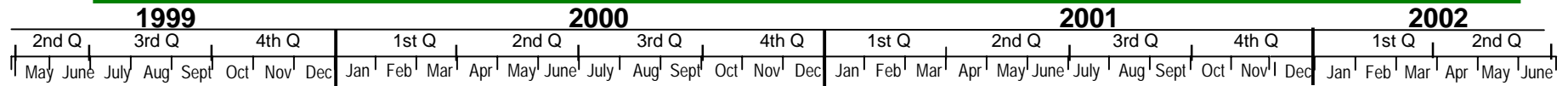
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Master Plan (Timeline Valid as of May 1, 2000)



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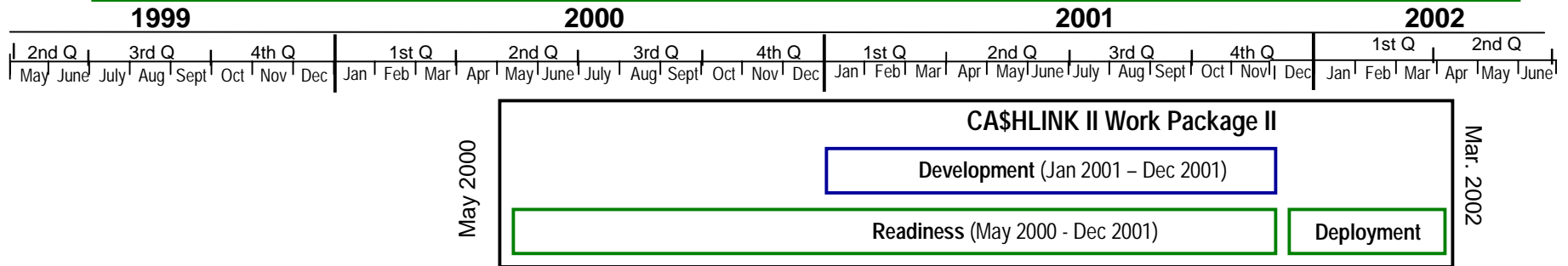
Work Package I Schedule (Timeline Valid as of May 1, 2000)



- Work Package I began August 1999 and ends October 2001
- Work Package I addresses FI, FRB and FMS User requirements
- Work Package I functionality includes:
 - Access through the Internet
 - Deposit Reporting
 - Bank Management
 - International Restorations
 - Maintenance
 - Outputs & Inquiries
 - Security & Administration

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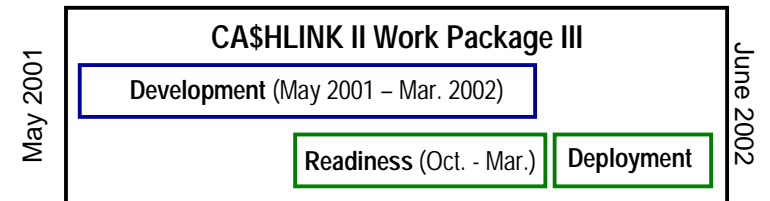
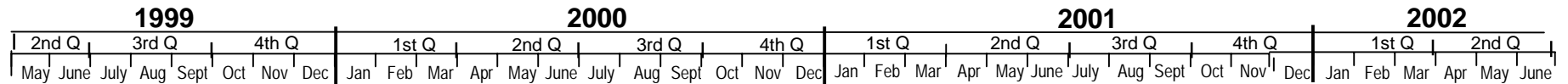
Work Package II Schedule (Timeline Valid as of May 1, 2000)



- Work Package II began May 2000 and ends March 2002
- Work Package II addresses Agency User requirements
- Work Package II functionality includes:
 - Access through the Internet
 - Access to the CA\$HLINK II Data Warehouse
 - Maintenance of CA\$HLINK Community Contacts
 - Outputs & Inquiries
 - Security & Administration

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Work Package III Schedule (Timeline Valid as of May 1, 2000)



- Work Package III begins May 2001 and ends June 2002
- Work Package III addresses all new User requirements
- Work Package III includes:

New Functionality

- Reconciliation
- Forecasting
- Collateral

Enhanced Functionality

- Deposit Reporting (Classification Data)
- Bank Management (Agency Verification)
- Maintenance
- Outputs & Inquiries
- Security & Administration

- **Simplified Access**
- **Deposit Reporting**
- **Reconciliation**
- **Bank Management**
- **Maintaining Financial Institution Information**
- **Collateral**

- **Using State-of-Art Technologies**
 - Ease of Use
 - Windows-based Environment
 - Internet-based Technology
- **On-line Help and Tutorial**
 - User Manual
 - Computer Based Training
 - Frequently Asked Questions
- **Increased Communications**
 - E-mail
 - On-Line Notification

- **Deposit Reporting by Electronic Methods**
 - TTR “Touch Tone Report” Input Not Available in CA\$HLINK II
- **Non-Treasury Disbursing Officer (NTDO) Reports**
- **Report Previous Days Closing DDA Balance**
- **Remittance Detail**
- **Capture Fund Account Level Information**
- **Capture CASH TRACK Codes**
- **Debit Reserve Accounts for Outstanding Funds**
- **On-line Notifications and Messaging**

- **Enhanced Reconciliation Tools for Agencies**
 - On-Line Viewing with More Drill Down Capability
 - Downloading Capabilities for Flexible Off-Line Reconciliation
 - Uploading Capabilities for On-Line Reconciliation
- **Benefit to Financial Institutions:**
 - More Timely Federal Agency Reconciliation to Reduce Differences at Month End

- **FI Reporting by Electronic Methods**
 - Via Web Browser
 - Via Electronic Data Interchange (EDI)
- **Adoption of Industry Standards**
- **Ancillary Billing / IPAC Interface**
- **Agency Verification of Volumes Reported by Financial Institutions**
 - Number of Checks in Deposit
 - Internal Control
- **Bank Report Card**
 - Agency Satisfaction with Service Levels
- **Treasury Time Balance (TTB) Changes Through Treasury Investment Program (TIP)**

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Maintaining Financial Institution Information

- **Financial Institution Information**
 - Contact Name and Address
 - Phone Number
 - E-mail Address (CASHLINK II Internal and External)
- **Account Contact Information**
 - FI Contact per Account
 - Agency Contacts for Financial Institutions
- **Financial Institution Responsibility**
 - Accuracy
 - Updates

- **Average Daily Collected Balance to be Sent to Treasury Investment Program (TIP) for Collateral Management**
- **Average Daily Collected Balance Reported Once Each Month by Non-Treasury Disbursing Office (NTDO) Financial Institutions to be Sent to TIP for Collateral Management**
- **TIP will Monitor Circular 176 Collateral**

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Readiness

- **Readiness – The group of activities that ensures the entire CASHLINK Community is prepared for deployment**
 - Communications
 - Training
 - Customer Relationship Management
 - Conversion
 - User Environment Preparation

Be Prepared!

- **Communications**

- Financial Institution Forums
- Advisory Group
- Focus Groups
- Web Site – <http://www.fms.treas.gov/cashlink>
- Newsletters
- E-Mail – cash.link@fms.treas.gov

Your Participation is Key!

- **CA\$HLINK Training**
 - Train-the-Trainer Sessions for FMS
 - Regional Representation
 - CA\$HLINK II Training Program
 - Classroom Training provided by FMS
 - Computer-Based Training
 - Interactive self-paced tutorial
 - CD / On-line
 - User Training Manuals
 - Printed document with on-line updates

Training to Meet Your Needs!

- **Customer Relationship Management (CRM)**
 - Updated quality standards and procedures
 - CRM training
 - Call Management System
 - Technical Support Staff
 - Extended hours of operation

Ready to Support!

- **Conversion**
 - Historic data will be available in CA\$HLINK II
 - Access to all information from one source during transition periods for Agencies and Financial Institutions

A Seamless Transition!

- **Utilizes the Public Internet**
 - Connect directly from your FI's Internet Service Provider (ISP) to CASHLINK II
 - Connect to your FI's ISP via a Local Area Network (LAN)
- **Small-Client**
 - Standard Window Look / Feel
 - Some CASHLINK II developed software stored on your PC
- **User Environment Preparation**
 - Prepare required workstation(s)
 - Identify and resolve any issues related to security and access
 - Ensure that workstation(s) can connect to CASHLINK II

A Prime Readiness Responsibility!

- **The client PC will have a minimum of the following Hardware:**
 - IBM-compatible
 - 233MHZ Processor
 - 200MB on hard drive for Client Application and Data
 - 64MB RAM
 - CD-ROM Drive
 - LAN access if using the Dedicated Link
- **The client PC will have a minimum of the following Software:**
 - Windows 95/98 or NT 4.0
 - Web Browser Internet Explorer 4.01 or Netscape 4.5
 - CA\$HLINK II Java Client Application (loaded from CD)
 - Adobe PDF viewer 3.01 or greater
 - TCP/IP protocol stack
- **Backup or Optional Access via Dialup link**
 - 56KB Modem recommended for enhanced performance

Architecture Validation Activities

CASHLINK II Purpose of Architecture Validation Activities

- **Look / Feel Prototype**
 - Early usability testing
 - Screen navigation
 - Data entry
 - Data retrieval
- **Business Security Risk Evaluation**
 - Determine the security requirements
 - Public Internet
 - External
 - Internal
- **Performance Benchmark**
 - Internet performance impact on the CASHLINK II applications
 - Small-Client
 - Thin-Client

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Look / Feel Prototype

- **Vehicle for early CA\$HLINK Community feedback on:**
 - Menu navigation
 - Messaging
 - Data Input
 - Query selection
 - Query setup
 - Response to Query
- **This is not intended to show real functionality**

Welcome to CASHLINK II

Welcome to the CASHLINK II System.

Unauthorized users of this system is a federal offense
and all violators will be prosecuted to the fullest
extent of the law.

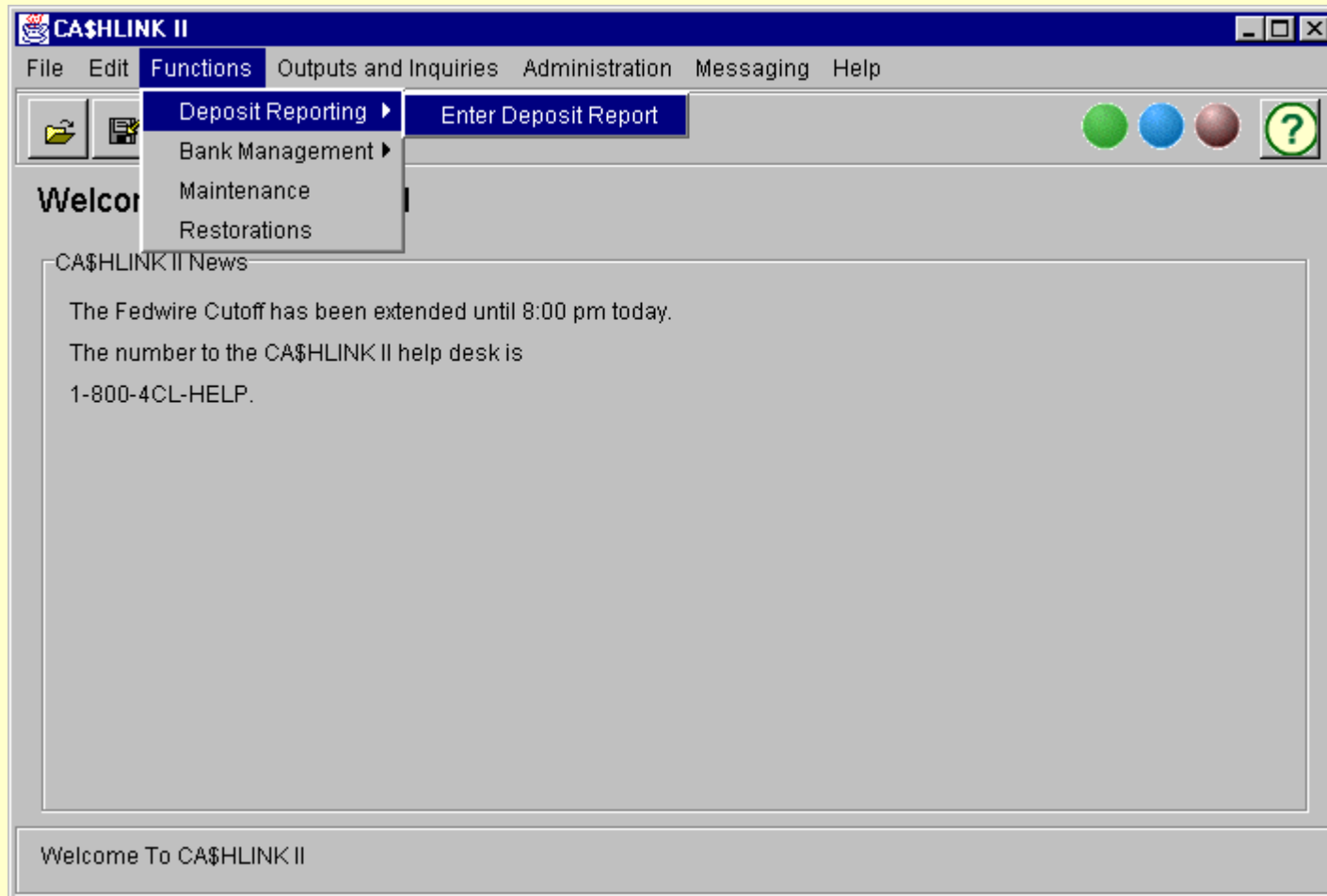
Username:

Password:

Login Cancel

CASHLINK II

Main Menu



Enter Deposit Report

File

Deposit Report

Account: Deposit Date:

Voucher Information

| Voucher N... | Voucher Ty... | Date | ALC | Debit | Credit |
|--------------|---------------|------|-----|-------|--------|
| | | | | | |

Add Voucher

Add
Modify Remove

Deposit Summary

Total Debits:
Total Credits:
Net Deposit:

Deferred Information

Deferred 1 Day:
Deferred 2 Day:

Transfer Amounts

| | Amount | Date | Mechanism |
|-------|------------|------------|-----------|
| 0 Day | \$50000.00 | 04/01/2000 | ACH |
| 1 Day | \$0.00 | 04/02/2000 | FedWire |
| 2 Day | \$0.00 | 04/03/2000 | ACH |

Enter Deposit Report

File

Add Voucher215

Number: 8487576 Date: 4/26/00
 ALC: Amount:

FAST Codes

| Code | Amount (\$) |
|----------|-------------|
| 44 32 18 | 15.25 |
| | 0 |
| | 0 |
| | 0 |
| | 0 |

Add Remove

CASH TRACK Codes

| Code | Amount (\$) |
|------|-------------|
| | |

Add Remove

Agency Use (Box 6)

OK Cancel

Calculate Submit Exit

Voucher
 215
 Add
 Modify Remove
 999,999,999.99
 m

Deposit Report Query

Search Criteria

| | | | |
|--------------------|----------------------|------------------|----------------------|
| Enter Voucher #: | <input type="text"/> | Enter ABA #: | <input type="text"/> |
| Special ID: | <input type="text"/> | Trace #: | <input type="text"/> |
| Net Amount From: | <input type="text"/> | Net Amount To: | <input type="text"/> |
| Deposit Date From: | <input type="text"/> | Deposit Date To: | <input type="text"/> |
| Process Date From: | <input type="text"/> | Process Date To: | <input type="text"/> |
| Transfer Date: | <input type="text"/> | | |

☐ FRB Accounts
 ☐ Commercial Accounts

☐ Treasury Accounts
 ☐ Deferred Accounts Only

☐ View Grand Totals Only

Query Results

| Trace Number | ABA Number | Special ID | Account Type | Date of Depo... | Debit Amoun... | Credit Amou... | Net Amount (\$) |
|---------------|------------|------------|--------------|-----------------|----------------|----------------|-----------------|
| 1026982569... | 054000030 | 51397264 | TGA | 4/3/2000 | 1,029,384 | 39,394,584 | 38,365,200 |

Enter Bank Management Information

Search Criteria

Special ID: Report Period:

Bank Management Information

| Account Product Codes | Price (\$) | Volume | Summary (\$) |
|-----------------------|------------|---------|--------------|
| 11 11 11 | 0.5 | 80,000 | 40,000 |
| 22 22 22 | 0.25 | 175,000 | 43,750 |
| 33 33 33 | 1.1 | 27,000 | 29,700 |
| 44 44 44 | 0.33 | 48,000 | 15,840 |
| 55 55 55 | 0.75 | 122,000 | 91,500 |

Add

Total:

OK Cancel

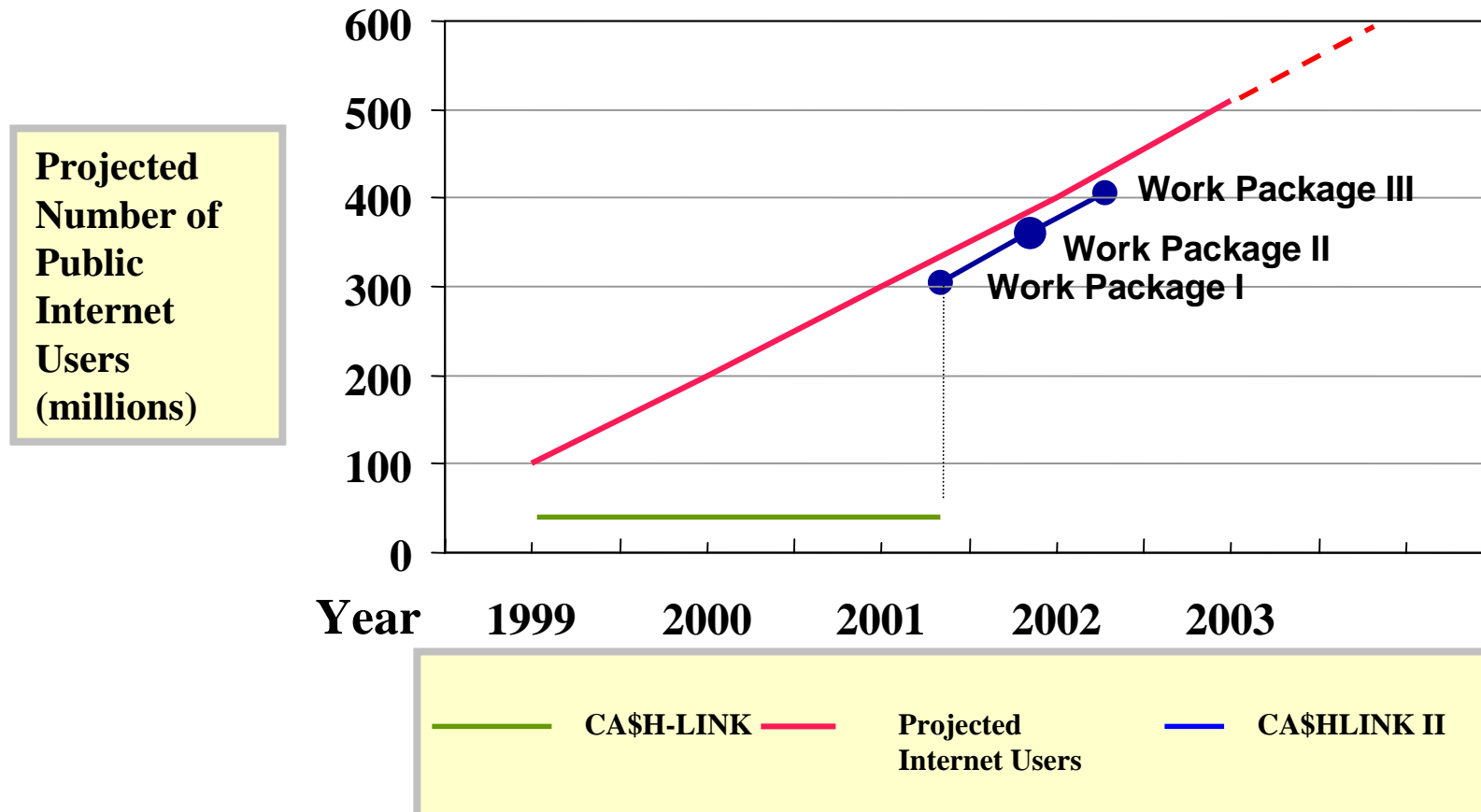
Business Security Risk Evaluation

- **Business Security Risk Evaluation**
 - Business Security Risk Objective
 - Magnitude of the Internet Threat
 - Business Risk / Vulnerability
 - Business Risk Mitigation Strategies
 - Benefits

- **Identify the threats to the CA\$HLINK Community by user role from the:**
 - Internet, other external sources or internal sources
- **Identify the business risk and vulnerability of each user role by type of threats from the:**
 - Internet, other external sources or internal sources
- **Determine prudent security risk mitigation strategies that are necessary to protect each user role:**
 - The Policy and Procedure requirements
 - The CA\$HLINK II Architectural requirements:
 - Prevention
 - Monitoring
 - Counter-Measures

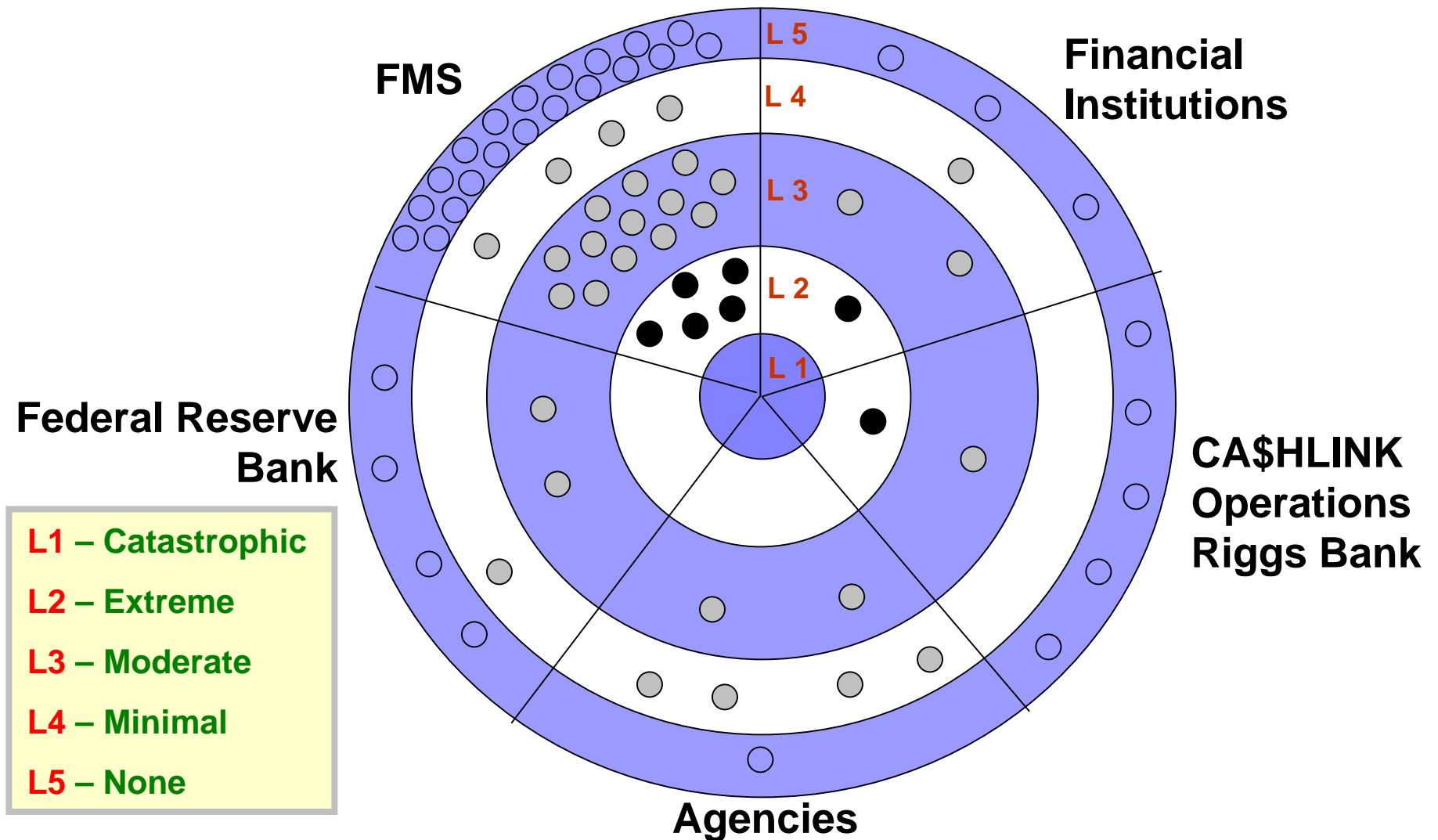
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Magnitude of the Internet Threat



Source: Statistics from Carnegie Mellon University, Computer Almanac, published in Newsweek, "The New Wired World", September 20, 1999

| | <u>Denial of Service</u> (e.g. Bogus requests, sync, "Zombie") | <u>Malicious Code</u> (e.g. Trojan Horse, Virus, Worms) | <u>Impersonation</u> (e.g. Counterfeit email, Applets, Scripts) | <u>Espionage Techniques</u> (e.g. Network scanners, Sniffers, Password crackers, Tools, Utilities) |
|-------------------|--|---|---|--|
| Fraud | | X | X | X |
| Theft | | X | X | X |
| Vandalism | X | X | X | X |
| Disruption | X | | | X |
| Terrorism | X | | | X |



| | <u>Level 2</u> | <u>Level 3</u> | <u>Level 4</u> | <u>Level 5</u> |
|---------------------------|----------------|----------------|----------------|----------------|
| System | | | | |
| Prevention | 2X | X | X | |
| Detection | X | | | |
| Counter - Measures | X | | | |
| People / Processes | | | | |
| Policies | 2X | X | X | X |
| Procedures | 2X | X | X | X |
| Clearances | X | | | |

- **Effective Security Model**
 - Architecture
 - Prevention, Detection, Counter-measures
 - People and processes
 - Policies, Procedures, Clearances
- **Cost-effective Security Implementation**
 - Provide only what is needed for prudent risk mitigation based on business community risk and vulnerability

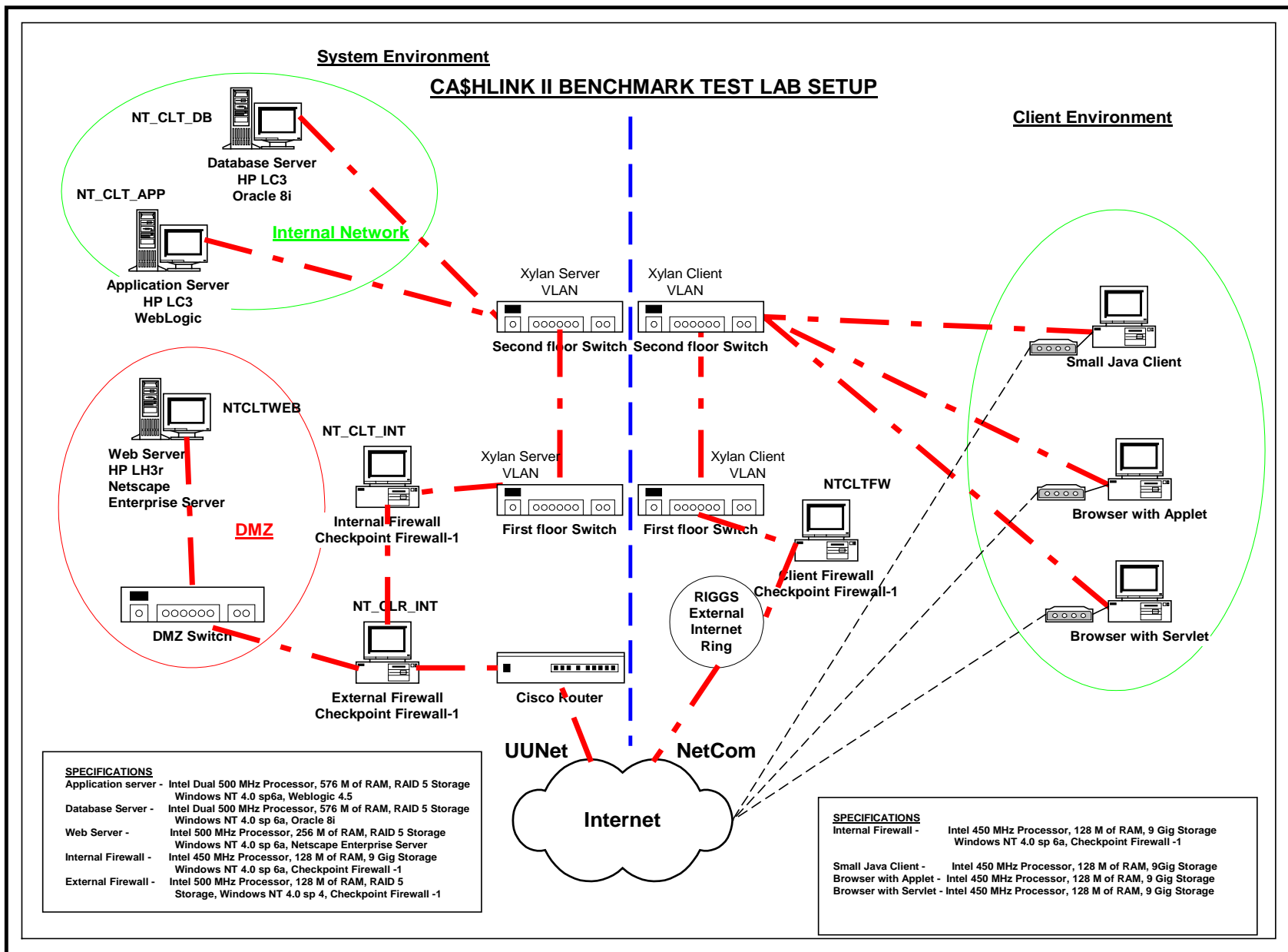
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Performance Benchmark

- **Performance Benchmark**
 - Performance Benchmark Hypothesis
 - Test Lab Setup
 - Performance Benchmark Results

- **Provide tests to determine the Internet's effect on performance for:**
 - Small-Client Java Application (LAN connected and Dial-up)
 - Thin-Client Web Browser with Java Applet (LAN connected and Dial-up)
 - Thin-Client Web Browser with HTML and Java Servlet (LAN connected and Dial-up)
- **Provide user / system interactions for the testing for:**
 - Menu navigation
 - System sign-on
 - Messaging
 - Data input
 - Query selection
 - Query setup
- **Provide tests to determine the performance effect of double-hop security configuration**

CASHLINK II



- The Internet delay was minimal during CA\$HLINK II Performance Benchmark
- User session startup and firewall authentication had a one-time hit on performance
- Dial-up Clients (Application and Applet) performed reasonably well for the selected functionality
- The bulk of the CA\$HLINK II System response time challenges were not Internet related

CASHLINK II

Communications

- **CA\$HLINK II Website**
 - <http://www.fms.treas.gov/cashlink>
 - Subscribe to our email notification service
 - E-mail questions / comments to cash.link@fms.treas.gov
- **CA\$HLINK Newsletter**
(<http://www.fms.treas.gov/cashlink/agency-access/>)
 - Update of Progress
 - Frequently Asked Questions
- **Customer User Groups (Federal Agencies, Financial Institutions, FMS Users)**
 - Conference Calls
 - Focus Group Sessions
 - Questionnaires

***We Want and Need Your Active Participation during
Development, Readiness and Deployment!***

- **Provide feedback on the CASHLINK II System and the Look / Feel Prototype on the Feedback Form**
- **Submit additional comments and questions On-line**
- **Encourage others to view this Presentation and the Comments at our Website**
- **Future Focus Groups**
 - Bank Management (Tentative November 2000)
- **Readiness Activities (Advisory Group)**
 - If interested, please fill out Participation Form
 - Participate in Training Content Development, Acceptance Testing and Pilot

- **CA\$HLINK II Questions**
 - Bill Paton, FMS CA\$HLINK II Team
 - E-mail: william.paton@fms.treas.gov
 - Phone: 202-874-6599
- **CA\$H-LINK Questions**
 - Riggs CA\$HLINK Help Desk
 - E-mail: cashlinkaa@riggsbank.com
 - Phone: 1-800-346-5465 or 301-887-6600

www.fms.treas.gov/cashlink